

THE FAILURE DATA HANDBOOK HAS ARRIVED!

A Reference Guide to Understanding and Assessing Risk and Reliability of Aerospace Systems and Spacecraft Designs

Valador's first edition Failure Data Handbook, edited by Dr. Joseph R. Fragola, is a design guidance tool for the aerospace community. This book provides educational material on risk assessment techniques as well as failure probability datasets focused on spacecraft applications including:

Launch Vehicles – Stages – Engines – Spacecraft Components

Heritage data can be used in risk assessments to discriminate among design options and thereby inform program/project stakeholders of the safety and reliability differences throughout all phases of design.

U.S. and International launch vehicle data including:

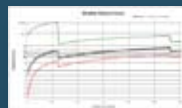
- general descriptions
- detailed specifications by stage
- failure probabilities with uncertainties
- historic failure descriptions
- reliability growth curves against demonstrated flight experience

U.S. upper stage and engine data including:

- general descriptions
- detailed specifications
- failure probabilities with uncertainties
- reliability growth curves against demonstrated flight experience

Aerospace hardware component data organized using a taxometric structure based on component category, class, type, subtype, and failure mode. It includes:

- general descriptions
- failure probabilities and uncertainties categorized by mechanisms of failure
- graphs for component classes and types showing probabilities for each failure mode



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